What is claimed is:

- 1. An approval authority registration system which
- 2 comprises terminals, a database, and a database management
- 3 apparatus interconnected via a network and registers, with the
- 4 database, approval relation information which shows
- 5 relationships between approval-authorized persons and approval
- 6 object persons who are both users of the approval authority
- 7 registration system, wherein
- 8 the database management apparatus includes:
- 9 a receiving unit operable to receive, from a user via a
- 10 terminal, a registration request requesting registration of a
- 11 piece of approval relation information;
- 12 a judging unit operable to judge whether the user who input
- 13 the registration request matches either an approval-authorized
- 14 person or an approval object person specified in the requested
- 15 piece of approval relation information; and
- 16 a registration unit operable to register the piece of
- 17 approval relation information with the database if the judging
- 18 unit judges that the user matches neither the specified
- 19 approval-authorized person nor the specified approval object
- 20 person.
- 1 2. The approval authority registration system of Claim
- 2 1, wherein
- 3 the database includes an attribute database with which
- 4 user attribute information showing attributes of the users is
- 5 registered,
- 6 the judging unit further judges whether an attribute of

- 7 the user who input the registration request satisfies a
- 8 predetermined condition by referring to the user attribute
- 9 information, and
- 10 the registration unit registers the piece of approval
- 11 relation information with the database if the judging unit judges
- 12 that the attribute of the user satisfies the predetermined
- 13 condition.
- 3. The approval authority registration system of Claim
- 2 2, wherein
- 3 the judging unit further judges whether an attribute of
- 4 the specified approval-authorized person satisfies a
- 5 predetermined condition by referring to the user attribute
- 6 information, and
- 7 the registration unit registers the piece of approval
- 8 relation information with the database if the judging unit judges
- 9 that the attribute of the specified approval-authorized person
- 10 satisfies the predetermined condition.
- 1 4. The approval authority registration system of Claim
- 2 1, wherein
- 3 the receiving unit further receives, from a user via a
- 4 terminal, a registration request requesting registration of a
- 5 piece of approval relation information specifying a proxy
- 6 approval-authorized person,
- 7 the judging unit further judges whether the user who input
- 8 the latter registration request matches an approval-authorized
- 9 person indicated by a piece of approval relation information

- 10 that has already been registered with the database, and
- 11 the registration unit registers the latter piece of
- 12 approval relation information with the database if the judging
- 13 unit judges that the user who input the latter registration
- 14 request matches the approval-authorized person indicated by the
- 15 already-registered piece of approval relation information.
- 1 5. The approval authority registration system of Claim
- 2 4, wherein
- 3 each piece of approval relation information further
- 4 includes (i) effective period information that indicates an
- 5 effective period of the piece of approval relation information
- 6 and (ii) user information that indicates a user who input a
- 7 registration request requesting registration of the piece of
- 8 approval relation information, and
- 9 the database management apparatus further includes:
- 10 a storage unit operable to store a list of notification
- 11 destinations respectively corresponding to the users of the
- 12 approval authority registration system;
- a monitoring unit operable to monitor, at regular intervals,
- 14 effective period information included in one or more pieces of
- 15 approval relation information which, among pieces of approval
- 16 relation information having been registered with the database,
- 17 specify proxy approval-authorized persons, and operable to judge
- 18 whether any of the one or more pieces of approval relation
- 19 information has an effective period end date that is within a
- 20 predetermined range of days including a day on which the
- 21 monitoring unit is currently monitoring; and

- a notification unit operable to, if the monitoring unit
 judges that one of the one or more pieces of approval relation
 information has an effective period end date that is within the
 predetermined range of days, notifies a notification destination
 corresponding to a user indicated by the one of the one or more
 pieces of approval relation information, of the judgment result
 by the monitoring unit.
- 1 6. The approval authority registration system of Claim 2 1, wherein
- 3 the registration unit further registers a piece of update
- 4 history information with the database each time a user newly
- 5 registers or updates a piece of approval relation information,
- 6 the receiving unit further receives, from a user via a
- 7 terminal, a request to obtain a piece of update history
- 8 information, and
- 9 the database management apparatus further includes
- 10 a history information distribution unit operable to read
- 11 the requested piece of update history information from the
- 12 database and distribute the read piece of update history
- 13 information to the terminal.
- 1 7. The approval authority registration system of Claim
- 2 1, wherein
- 3 the receiving unit further receives an approval request
- 4 from a user via a terminal, and
- 5 the database management apparatus further includes:
- an identifying unit operable to identify, by referring

- 7 to approval relation information registered with the database,
- 8 an approval-authorized person to whom the user, as an approval
- 9 object person, corresponds;
- 10 an approval request distribution unit operable to
- 11 distribute the received approval request to the identified
- 12 approval-authorized person;
- an obtaining unit operable to obtain approval information,
- 14 which indicates an approval or a denial by the
- 15 approval-authorized person in response to the approval request,
- 16 from the approval-authorized person via a terminal; and
- an approval information distribution unit operable to
- 18 distribute the obtained approval information to the user who
- 19 sent the approval request.
- 1 8. The approval authority registration system of Claim
- 2 1, wherein
- 3 each piece of approval relation information to be
- 4 registered and having been registered with the database includes
- 5 responsible person classification information that indicates
- 6 whether an approval-authorized person specified in the piece
- 7 of approval relation information is a responsible person or proxy,
- 8 wherein
- 9 if the receiving unit receives a piece of approval relation
- 10 information with responsible person classification information
- 11 indicating that an approval-authorized person is proxy, the
- 12 judging unit judges whether the user who input a registration
- 13 request requesting registration of the received piece of approval
- 14 relation information matches a responsible person indicated by

- 15 a piece of approval relation information that has already been
- 16 registered with the database, and
- 17 the registration unit registers the received piece of
- 18 approval relation information with the database if the judging
- 19 unit judges that the user who input the registration request
- 20 matches the responsible person indicated by the
- 21 already-registered piece of approval relation information.
- 9. An approval authority registration system which
- 2 comprises terminals and a database management apparatus
- 3 interconnected via a network and registers approval relation
- 4 information showing relationships between approval-authorized
- 5 persons and approval object persons who are both users of the
- 6 approval authority registration system, wherein
- 7 the database management apparatus includes:
- 8 a database that stores, in advance, registered
- 9 approval-authorized person identification information for
- 10 identifying registered approval-authorized persons among the
- 11 users;
- 12 a receiving unit operable to receive, from a user via a
- 13 terminal, a registration request that requests to newly register
- 14 a piece of proxy approval relation information that specifies
- 15 (i) one of the users as a proxy approval-authorized person and
- 16 (ii) a different one of the users as a proxy approval object
- 17 person;
- a judging unit operable to judge whether the user who input
- 19 the registration request has been registered as an
- 20 approval-authorized person, by referring to the registered

- 21 approval-authorized person identification information stored 22 in the database;
- 23 a registration unit operable to newly register (i) the 24piece of proxy approval relation information and (ii) a piece 25 of proxy approval relation registration history information that 26 shows a history of registrations of proxy approval relation 27 information by the user, with the database if the judging unit 28 judges that the user has been registered an 29 approval-authorized person; and

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- a history information distribution unit operable to, if the receiving unit receives a request to obtain the piece of proxy approval relation registration history information from a user via a terminal, distribute the piece of proxy approval relation registration history information to the terminal via which the request to obtain the piece of proxy approval relation registration history information was received.
- 10. An approval authority registration method for use 1 2 in a database management apparatus comprised in an approval 3 authority registration system which comprises terminals and a database as well, and registers approval relation information 4 with the database, wherein the database management apparatus, 5 6 the terminals, and the database are interconnected via a network, 7 the approval relation information showing relationships between 8 approval-authorized persons and approval object persons who are 9 both users of the approval authority registration system, wherein the approval authority registration method includes: 10 11 a receiving step for receiving, from a user via a terminal,

12 a registration request requesting registration of a piece of
13 approval relation information;

a judging step for judging whether the user who input the registration request matches either an approval-authorized person or an approval object person specified in the requested piece of approval relation information; and

a registration step for registering the piece of approval relation information with the database if the judging unit judges that the user matches neither the specified approval-authorized person nor the specified approval object person.

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1 An approval authority registration program for use 2 in a database management apparatus comprised in an approval authority registration system which comprises terminals and a 3 4 database as well, and registers approval relation information 5 with the database, wherein the database management apparatus, 6 the terminals, and the database are interconnected via a network, 7 the approval relation information showing relationships between 8 approval-authorized persons and approval object persons who are 9 both users of the approval authority registration system, wherein 10 the approval authority registration program includes: a receiving step for receiving, from a user via a terminal, 11 12 a registration request requesting registration of a piece of approval relation information; 13 14 a judging step for judging whether the user who input the

- 17 piece of approval relation information; and
- a registration step for registering the piece of approval
- 19 relation information with the database if the judging unit judges
- 20 that the user matches neither the specified approval-authorized
- 21 person nor the specified approval object person.
- 1 12. A computer-readable recording medium recording
- 2 therein an approval authority registration program for use in
- 3 a database management apparatus comprised in an approval
- 4 authority registration system which comprises terminals and a
- 5 database as well, and registers approval relation information
- 6 with the database, wherein the database management apparatus,
- 7 the terminals, and the database are interconnected via a network,
- 8 the approval relation information showing relationships between
- 9 approval-authorized persons and approval object persons who are
- 10 both users of the approval authority registration system, wherein
- 11 the approval authority registration program includes:
- 12 a receiving step for receiving, from a user via a terminal,
- 13 a registration request requesting registration of a piece of
- 14 approval relation information;
- a judging step for judging whether the user who input the
- 16 registration request matches either an approval-authorized
- 17 person or an approval object person specified in the requested
- 18 piece of approval relation information; and
- a registration step for registering the piece of approval
- 20 relation information with the database if the judging unit judges
- 21 that the user matches neither the specified approval-authorized
- 22 person nor the specified approval object person.